CLAIMS

What is claimed is:

1. A pump-motor assembly, comprising:

a motor unit;

a pump assembly having components; and

a shell having an expanded portion, wherein the shell encloses the pump assembly components and the motor unit with the expanded portion disposed around the motor unit and wherein the shell aligns the pump assembly components to the motor unit.

2. The pump-motor assembly of claim 1, wherein the motor unit includes an end bell and a lead housing.

3. The pump-motor assembly of claim 2, wherein the shell contacts the end bell.

4. The pump-motor assembly of claim 2, wherein the shell contacts the lead housing.

5. The pump-motor assembly of claim 2, wherein the shell contacts the end bell and the lead housing.

6. The pump-motor assembly of claim 1, wherein the motor unit includes a stator and the expanded portion of the shell is disposed around the stator.

7. The pump-motor assembly of claim 1, wherein the inner diameter of the expanded portion of the shell is at least four inches.

8. A pump-manifold assembly, comprising:

a manifold;

a pump-motor assembly; and

a piping assembly connecting the pump-motor assembly to the manifold,

wherein the pump-motor assembly comprises:

a motor unit;

a pump assembly having components; and

a shell having an expanded portion, wherein the shell encloses the pump assembly components and the motor unit with the expanded portion disposed around the motor unit and wherein the shell aligns the pump assembly components to the motor unit.

9. The pump-manifold assembly of claim 8, wherein the motor unit includes an end bell and a lead housing.

10. The pump-manifold assembly of claim 9, wherein the shell contacts the end bell.

11. The pump-manifold assembly of claim 9, wherein the shell contacts the lead housing.

12. The pump-manifold assembly of claim 9, wherein the shell contacts the end bell and the lead housing.

13. The pump-manifold assembly of claim 8, wherein the motor unit includes a stator and the expanded portion of the shell is disposed around the stator.

14. The pump-manifold assembly of claim 8, wherein the inner diameter of the expanded portion of the shell is at least four inches.

15. A petroleum distribution system for use in a petroleum dispensing station, comprising:

a petroleum storage tank;

a petroleum dispenser;

a pump-manifold assembly, in fluid communication with the petroleum dispenser, having a pump-motor assembly, wherein the pump-motor assembly is disposed in the storage tank and the pump-motor assembly comprises:

a motor unit;

a pump assembly having components; and

a shell having an expanded portion, wherein the shell encloses the pump assembly components and the motor unit with the expanded portion disposed around the motor unit and wherein the shell aligns the pump assembly components to the motor unit.

16. The petroleum distribution system of claim 15, wherein the motor unit includes an end bell and a lead housing.

17. The petroleum distribution system of claim 16, wherein the shell contacts the end bell.

18. The petroleum distribution system of claim 16, wherein the shell contacts the lead housing.

19. The petroleum distribution system of claim 16, wherein the shell contacts the end bell and the lead housing.

20. The petroleum distribution system of claim 15, wherein the motor unit includes a stator and the expanded portion of the shell is disposed around the stator.

21. The petroleum distribution system of claim 15, wherein the inner diameter of the expanded portion of the shell is at least four inches.

22. A method for increasing fluid dispensing flow rate in a petroleum distribution system for use in a petroleum dispensing station, comprising:

providing a petroleum distribution system including a petroleum storage tank; a petroleum dispenser; a pump-manifold assembly, in fluid communication with the petroleum dispenser, having a pump-motor assembly, wherein the pump-motor assembly is disposed in the storage tank and the pump-motor assembly includes a motor unit, a pump assembly having components, and a shell having an expanded portion, wherein the shell encloses the pump assembly components and the motor unit with the expanded portion disposed around the motor unit and wherein the shell aligns the pump assembly components to the motor unit; and

energizing the pump-motor assembly to pressurize the petroleum distribution system.

23. A method for increasing dispensing capacity in a petroleum distribution system for use in a petroleum dispensing station where the maximum dispensing flow rate is capped, comprising:

providing a capped maximum dispensing flow rate;

providing a petroleum distribution system including a petroleum storage tank; a petroleum dispenser; a pump-manifold assembly, in fluid communication with the petroleum dispenser, having a pump-motor assembly, wherein the pump-motor assembly is disposed in the storage tank and the pump-motor assembly includes a motor unit, a pump assembly having components, and a shell having an expanded portion, wherein the shell encloses the pump assembly components and the motor unit with the expanded portion disposed around the motor unit and wherein the shell aligns the pump assembly components to the motor unit; and

energizing the pump-motor assembly to pressurize the petroleum distribution system.

24. The method of claim 23, wherein the provided capped maximum dispensing flow rate is ten gallons per minute.